AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A <u>computer-implemented</u> system that facilitates determining presence of an object, comprising:

a transmit component that transmits a multicast-type message as a unicast message to the object, the object having a timeout period and a plurality of functions capable of independent presence indication associated therewith, the multicast-type message directed to a first set of one or more of the plurality of functions, the multicast-type message is of a type that is normally sent as a multicast datagram;—and

a presence component that monitors a response to the unicast message from the object, and if a response is not received, the object is presumed to be off-line with respect to the first set of one or more of the plurality of functions, the object is presumed to be on-line with respect to a second set of one or more of the plurality of functions, and the response is substantially similar [[as]] to that for a multicast message to the object;

and a processor configured to execute the transmit and presence components.

- 2. (Original) The system of claim 1, the object is at least one of a wired device, a wireless device, and a service.
- 3. (Original) The system of claim 1, the multicast-type message is transmitted in unicast at least once before the timeout period expires.
- 4. (Original) The system of claim 1, a plurality of the multicast-type messages are transmitted in unicast to the object to control the object.
- 5. (Original) The system of claim 4, the plurality of multicast-type messages signal the object to stay online.

- 6. (Previously Presented) The system of claim 1, at least one of the transmit component and the presence component is part of a client application that transmits the multicast-type message in unicast and receives the response in unicast from the object.
 - 7. (Cancelled)
- 8. (Original) The system of claim 1, the unicast response is cached at the systemend.
- 9. (Original) The system of claim 1, the multicast-type message is directed to at least one of the object, an embedded device of the object, and an embedded service of the object.
 - 10. (Cancelled)
- 11. (Original) The system of claim 1, the object is compatible with a plug-and-play architecture.
- 12. (Original) The system of claim 1, the transmit component transmits a plurality of unique multicast-type messages in unicast to a respective plurality of the objects.
- 13. (Original) The system of claim 1, the transmit component transmits a first multicast-type message in unicast to an intermediate device to determine its status before transmitting the multicast-type message in unicast to the object.
- 14. (Original) The system of claim 1, the multicast-type message is transmitted in unicast to the object from a first client application, the response to which indicates a status of the object, and the status of which is announced by the first client application to a second client application.
 - 15. (Cancelled)

16. (Original) A computer readable medium having stored thereon computer executable instructions for carrying out the system of claim 1.

17-25. (Cancelled)

26. (Currently Amended) A <u>computer-implemented</u> method of determining the presence of an object on a network, comprising:

transmitting <u>from a computer</u> a multicast-type message in unicast to the object on demand;

checking for receipt <u>by the computer</u> of a response from the object to determine the status of the object; and

determining the status of the object based upon receipt or non-receipt of the response.

- 27. (Original) The method of claim 26, further comprising delaying determination of the status of the object until a predetermined number of additional multicast-type messages have been transmitted to the object in unicast.
- 28. (Original) The method of claim 26, further comprising initiating discovery of an intermediary object in response to determining initially that the object is off-line.
- 29. (Original) The method of claim 26, further comprising automatically initiating discovery of a redundant object in response to determining that the object is off-line.
- 30. (Original) The method of claim 26, the object is one of a plurality of interdependent objects such that failure of the object results in failure of the remaining plurality of interdependent objects.

- 31. (Original) The method of claim 30, plurality of interdependent objects are discovered according to a hierarchy such that the object is discovered before the remaining plurality of interdependent objects.
- 32. (Original) The method of claim 26, further comprising signaling the object to stay on-line using at least two of the multicast-type messages sent in unicast to the object.

33-36. (Cancelled)